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RECEIVED STAFF

August 13, 1968

Attention: Ed D.

Subject: Control #02228 - Status Report
for Period Ending July 31, 1968

Gentlemen:

During this reporting period the following work has been performed. For the purpose of this and future reports, your group will be referred to as the customer.

1. A subcontract was issued to [redacted] on July 3, 1968, for two pieces of sophisticated electronic equipment. The first of these is for the four-axis measurement readout and digitizing system which will be compatible with the customer's in-house, on-line Univac 494 Computer. The second piece of equipment is the power supply and control system for the twin stage servo motor drive units. Both pieces of equipment will be manufactured in accordance with specifications issued by the [redacted] to assure that the end product will satisfy those requirements set forth by the customer. STAT
2. A copy of the specifications which will be employed to order a high power stereo comparator head from [redacted] was mailed to the contracting officer's technical representative on July 24, 1968, for review and subsequent approval. It is the intent of the [redacted] to include any recommendations and additions made by the technical representative in the final draft of the stereo comparator head specifications. A copy of the amended specifications will then be submitted to [redacted] for final price and delivery determination. STAT
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3. During the month of July, the [redacted] obtained a verbal price and delivery date from [redacted] for one stereo head. The price was quoted as [redacted] with a 30 week delivery after receipt of a purchase order. This quotation was based on previous direct discussions between [redacted] and the customer. STAT
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4. During this report period, the [] discussed the configuration of the reticle to be used in the stereo head with [] stated that they also intended to contact the customer directly for the purpose of discussing the reticle configuration.

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5. Because of the long delivery date verbally quoted by [] for their stereo comparator head, the [] requested and received the loan of a stereo head owned by the customer. [] intends to use this stereo head to determine the design modifications necessary to change the separation of the two turret optical center lines from 12.1 to 18 in. The optical design required to make this modification is an important consideration in that the final mechanical design of the twin stage comparator cannot be completed until this problem is resolved.

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6. A preliminary design layout of the twin stage comparator was made to determine that its physical width and length dimensions would not exceed those specified by the customer as maximum values. From this layout it was possible to verify that the comparator can be positioned on the top surface of a console measuring 34 in. wide by 48 in. long without projecting beyond this rectangular area.

7. The location of various instrument controls on the console was discussed with respect to best position based on operator convenience.

8. During the month of July supervisory personnel at the [] [] investigated problems considered as critical relative to the design and manufacture of the twin stage comparator. The solution to one of these problems, as mentioned earlier in this report, was to borrow a stereo head from the customer so the optical design required to modify it could be started. As anticipated, only a small percentage of the engineering layouts necessary for design completion was accomplished during this first report period.

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Before the next report period (August), the [] plans to do the following work.

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1. A meeting will be arranged with the technical representative and personnel from the [] to discuss human engineering aspects relative to the location of operator controls on the instrument console.

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2. Upon receipt of approval of the specifications for the stereo comparator head, [] will be requested to furnish a written price quotation and delivery date for one unit manufactured to these specifications which can only then be placed on order.
 3. Prepare a job schedule to show the work planned for each monthly period through to completion of the contract.
 4. Start the optical design necessary to modify the stereo head so it can be adapted for use on the twin stage comparator.
 5. A preliminary layout of the instrument console also will be started to determine the position of the comparator on its top surface. This layout will also be of assistance in discovering those areas best suited for mounting the operator controls.
 6. A design layout of the X and Y axis motor drive units will be started. One of the purposes of this layout will be to explore the feasibility of mounting and gearing the shaft encoders directly to the motor drive units associated with each of the four individual stage motions.

During the first report period we have not reached any oral agreements on technical matters not requiring the approval of the contracting officer.

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While it would be premature at this point in the execution of the contract to itemize every conceivable design concept as a possible unresolved technical problem, the most critical path appears to be along the line of cooperation between [] regarding timely availability of information regarding the stereo head construction so the [] can proceed with the modification required in a manner which is in the best interest of the customer.

A Status of Funds statement will be found on the following page of this report.

Very truly yours,

[]

Asst. Manager, Engineering

HBB:pc

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